

24997D

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A muffler/exhaust pipe system comprising:
a muffler having an outer shell formed from a composite material wherein a perforated pipe extends through said outer shell;
at least one exhaust pipe connected to said perforated pipe;
a collar having a wide end and a narrow end wherein said narrow end is fitted around said exhaust pipe;
a multilayer bushing fitted around said wide end of said collar wherein said muffler shell is in contact with said bushing.
2. (Previously Presented) The muffler/exhaust pipe system as in claim 1, wherein said collar is clamped to said exhaust pipe.
3. (Previously Presented) The muffler/exhaust pipe system as in claim 1, wherein said collar is welded to said exhaust pipe.
4. (Previously Presented) The muffler/exhaust pipe system of claim 1, wherein said collar is constructed of steel.
5. (Previously Presented) The muffler/exhaust pipe system of claim 1, wherein said collar is a conically shaped collar.
6. (Currently Amended) The muffler/exhaust pipe of claim 1, wherein said bushing is constructed of a material materials selected from the group consisting of zirconia, stabilized or modified zirconia, polytetrafluoroethylene, polyimide, polyketone, polyetheretherketone, polyetherketone, and polyamide imide.
7. (Previously Presented) A muffler/exhaust pipe as set forth in claim 1, wherein said perforated pipe receives exhaust gases and fibrous material provided within said outer shell between said perforated pipe and said outer shell.
8. (Previously Presented) A muffler/exhaust pipe as set forth in claim 7, wherein said fibrous material comprises a needle felt material.
9. (Previously Presented) A muffler/exhaust pipe as set forth in claim 7, wherein said fibrous material comprises a loose wool-type product fed into said outer shell via a texturizing device.
10. (Previously Presented) A muffler/exhaust pipe as set forth in claim 7, wherein said muffler shell comprises first and second parts.
11. (Previously Presented) A muffler/exhaust pipe as set forth in claim 10, wherein said fibrous material comprises first and second fibrous material preforms which are received respectfully in said first and second shell parts.

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12. (Previously Presented) A muffler/exhaust pipe as set forth in claim 1, wherein said muffler comprises a bumper/muffler assembly, and said bumper/muffler assembly further comprising a heat shield provided between said bumper and said muffler outer shell.
13. (Previously Presented) A muffler/exhaust pipe as set forth in claim 1, wherein said muffler comprises a bumper/muffler assembly, and said bumper/muffler further comprises a cover for securing said muffler to said bumper.
14. (Previously Presented) A muffler/exhaust pipe as set forth in claim 1, wherein said muffler comprises a bumper/muffler assembly, and said bumper/muffler comprises a main body having front, rear, upper and lower surfaces, said front surface facing away from a vehicle, said rear surface facing toward the vehicle, said upper surface facing away from ground and said lower surface facing toward ground, and said main body including a recess formed in said rear surface and one of said upper and lower surfaces for receiving said muffler shell such that said main body provides impact protection for said muffler shell.
15. (Previously Presented) A muffler/exhaust pipe as set forth in claim 14, wherein a portion of said main body defines at least a part of an outer shell of said muffler.
16. (Currently Amended) A bumper/muffler/exhaust pipe system comprising:
- a) a bumper/muffler assembly comprising a bumper, a muffler having an outer shell and a perforated pipe extending through said outer shell, said muffler being associated with said bumper;
 - b) at least one exhaust pipe;
 - c) a flex section for coupling said exhaust pipe to said perforated pipe;
wherein the distance from a centerline through said perforated pipe and said composite muffler shell is longer in the middle section of said composite muffler shell than at either end of the composite muffler shell and
 - d) a multilayer bushing having an outer surface engaging said outer shell and an inner surface engaging said flex section.
17. (Previously Presented) A bumper/muffler/exhaust pipe system as set forth in claim 16, wherein said flex section is secured to the exhaust pipe by a method selected from the group consisting of one of welding and clamping to said exhaust pipe.
18. (Cancelled)
19. (Previously Presented) A bumper/muffler/exhaust pipe system as set out in claim 17, wherein said flex section extends only part way through said bushing and abuts said perforated pipe.
20. (Previously Presented) A bumper/muffler/exhaust pipe system as set out in claim 17, wherein said flex section extends completely through said bushing.
21. (Previously Presented) A bumper/muffler/exhaust pipe system as set out in claim 16, wherein said flex section comprises a flexible woven metal tube.
22. (Currently Amended) A bumper/muffler/exhaust pipe system comprising:

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- a) a bumper/muffler assembly comprising a bumper,
 - b) a muffler having a composite outer shell, said muffler being associated with said bumper,
- wherein said muffler further comprises metal ends caps at adjacent ends of said muffler;
- c) a perforated pipe extending through said outer shell
 - d) at least one exhaust pipe coupled to said perforated pipe; and
 - e) a multilayer bushing having an outer surface engaging said outer shell and an inner surface engaging said flex section.
23. (Previously Presented) A bumper/muffler assembly as set forth in claim 22, wherein said perforated pipe receives exhaust gases and fibrous material provided within said outer shell between said perforated pipe and said outer shell.
24. (Previously Presented) A bumper/muffler assembly as set forth in claim 23, wherein said fibrous material comprises a needle felt material.
25. (Previously Presented) A bumper/muffler assembly as set forth in claim 23, wherein said fibrous material comprises a loose wool-type product fed into said outer shell via a texturizing device.
26. (Previously Presented) A bumper/muffler assembly as set forth in claim 23, wherein said fibrous material comprises first and second fibrous material preforms which are received respectfully in said first and second shell parts.
27. (Previously Presented) A bumper/muffler assembly as set forth in claim 22, further comprising a heat shield provided between said bumper and said muffler outer shell.
28. (Previously Presented) A bumper/muffler assembly as set forth in claim 22, further comprising a cover for securing said muffler to said bumper.
29. (Previously Presented) A bumper/muffler assembly as set forth in claim 22, wherein said bumper comprises a main body having front, rear, upper and lower surfaces, said front surface facing away from a vehicle, said rear surface facing toward the vehicle, said upper surface facing away from ground and said lower surface facing toward ground, and said main body including a recess formed in said rear surface and one of said upper and lower surfaces for receiving said muffler shell such that said main body provides impact protection for said muffler shell.
30. (Previously Presented) A bumper/muffler assembly as set forth in claim 29, wherein a portion of said main body defines at least a part of an outer shell of said muffler.
31. (Previously Presented) A bumper/muffler assembly as set forth in claim 22, wherein said metal material comprises stainless steel.
32. (Currently Amended) A muffler/exhaust pipe system comprising:
- a) a muffler having an outer shell formed from a composite material wherein a perforated pipe extends through said outer shell;
 - b) at least one exhaust pipe connected to said perforated pipe;
 - c) a multilayer bushing fitted around said exhaust pipe and in contact with the interior of said muffler, where said bushing comprises multiple layers of materials.

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33. (Previously Presented) The muffler/exhaust pipe system of claim 32, wherein said bushing comprises at least three layers of materials.
34. (Previously Presented) The muffler/exhaust pipe system of claim 33, wherein a first, inner layer, fitted around said exhaust pipe, comprises a heat-resistant material.
35. (Currently Amended) The muffler/exhaust pipe system of claim 33, wherein said first, inner layer comprises a ceramic material—
36. (Previously Presented) The muffler/exhaust pipe system of claim 33, wherein a second, middle layer comprises a heat resistant material.
37. (Previously Presented) The muffler/exhaust pipe system of claim 36, wherein said second, middle layer comprises a phenolic material.
38. (Previously Presented) The muffler/exhaust pipe system of claim 33, wherein a third outer layer comprises an expandable material.
39. (Previously Presented) The muffler/exhaust pipe system of claim 38, wherein said third outer layer comprises a rubberized phenolic material.
40. (Previously Presented) The muffler/exhaust pipe system of claim 39, wherein said third outer layer comprises a raised bead around said second, inner layer.
41. (Previously Presented) The muffler/exhaust pipe system of claim 40, wherein said interior of said muffler comprises a groove for receiving said raised bead.
42. (Previously Presented) The muffler/exhaust pipe system of claim 41, wherein said groove comprises an elastomeric material.
43. (Previously Presented) The muffler/exhaust pipe system of claim 33, wherein said first, inner layer is welded to said exhaust pipe.



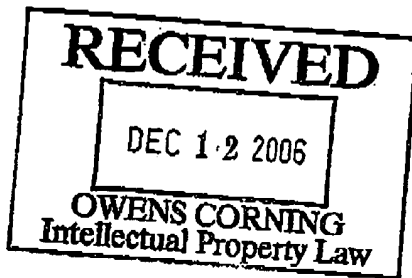
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/749,281	12/31/2003	Norman T. Huff	24997D	9783

22889 7590 12/08/2006

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EXAMINER

SAN MARTIN, EDGARDO

ART UNIT PAPER NUMBER

2837

DATE MAILED: 12/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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**Notice of Non-Compliant
Amendment (37 CFR 1.121)**

Application No.

10-749281

Applicant(s)

Examiner

San Martin

Art Unit

— The MAILING DATE of this communication appears on the cover sheet with the correspondence address —

The amendment document filed on 11.2.06 is considered non-compliant because it has failed to meet the requirements of 37 CFR 1.121 or 1.4. In order for the amendment document to be compliant, correction of the following item(s) is required.

THE FOLLOWING MARKED (X) ITEM(S) CAUSE THE AMENDMENT DOCUMENT TO BE NON-COMPLIANT:☒ 1. Amendments to the specification:

- ☒ A. Amended paragraph(s) do not include markings.
☐ B. New paragraph(s) should not be underlined.
☐ C. Other _____

☐ 2. Abstract:

- ☐ A. Not presented on a separate sheet. 37 CFR 1.72.
☐ B. Other _____

☐ 3. Amendments to the drawings:

- ☐ A. The drawings are not properly identified in the top margin as "Replacement Sheet," "New Sheet," or "Annotated Sheet" as required by 37 CFR 1.121(d).
☐ B. The practice of submitting proposed drawing correction has been eliminated. Replacement drawings showing amended figures, without markings, in compliance with 37 CFR 1.84 are required.
☐ C. Other _____

☐ 4. Amendments to the claims:

- ☐ A. A complete listing of all of the claims is not present.
☐ B. The listing of claims does not include the text of all pending claims (including withdrawn claims)
☐ C. Each claim has not been provided with the proper status identifier, and as such, the individual status of each claim cannot be identified. Note: the status of every claim must be indicated after its claim number by using one of the following status identifiers: (Original), (Currently amended), (Canceled), (Previously presented), (New), (Not entered), (Withdrawn) and (Withdrawn-currently amended).
☐ D. The claims of this amendment paper have not been presented in ascending numerical order.
☐ E. Other: _____

☐ 5. The amendment is unsigned or not signed in accordance with 37 CFR 1.4.

For further explanation of the amendment format required by 37 CFR 1.121, see MPEP § 714 and the USPTO website at <http://www.uspto.gov/web/offices/pac/dapp/opla/preognotice/officeflyer.pdf>.

TIME PERIODS FOR FILING A REPLY TO THIS NOTICE:

1. Applicant is given **no new time period** if the non-compliant amendment is an after-final amendment or an amendment filed after allowance. If applicant wishes to resubmit the non-compliant after-final amendment with corrections, the **entire corrected amendment** must be resubmitted within the time period set forth in the final Office action.
2. Applicant is given **one month**, or thirty (30) days, whichever is longer, from the mail date of this notice to supply the **corrected section** of the non-compliant amendment in compliance with 37 CFR 1.121 or 1.4, if the non-compliant amendment is one of the following: a preliminary amendment, a non-final amendment (including a submission for a request for continued examination (RCE) under 37 CFR 1.114), a supplemental amendment filed within a suspension period under 37 CFR 1.103(a) or (c), and an amendment filed in response to a *Quayle* action.

Extensions of time are available under 37 CFR 1.136(a) **only** if the non-compliant amendment is a non-final amendment or an amendment filed in response to a *Quayle* action.

Failure to timely respond to this notice will result in:

Abandonment of the application if the non-compliant amendment is a non-final amendment or an amendment filed in response to a *Quayle* action; or

Non-entry of the amendment if the non-compliant amendment is a preliminary amendment or supplemental amendment.

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